

**Amendments to the Specification:**

Please delete the heading “DESCRIPTION” found after paragraph [0001].

Please replace the heading “Presentation of the invention” on line 1 of page 3 with the heading “~~Presenta~~tion Summary of the ~~invention~~ Invention”.

Please replace paragraph [0014] with the following amended paragraph:

[0014] According to another characteristic, the microwave tube according to the invention is a PWT, a BWO type tube, ~~a klystron, a magnetron,~~ a carcinotron, or a maser.

Please replace paragraph [0016] with the following amended paragraph:

[0016] The invention has the advantage that the frequency F of the emitted electromagnetic wave can be varied within a large variation range, namely ~~several~~ a few tens of percent, while maintaining amplification performances of the electromagnetic wave existing in the power sources working at fixed frequency.

Please replace paragraph [0019] with the following amended paragraph:

[0019] Advantageously, this integrated system enables fast modulation of parameters, namely the frequency and power of the radio frequency signal. The system can easily be automated and can be quickly externally controlled from outside without needing to modify operation of the electron beam.

Please replace paragraph [0020] with the following amended paragraph:

[0020] This integrated system can be particularly well adapted to BWO ~~BOW~~ type hyper frequency tubes. It then replaces periodic structures in place and/or inserts. It is also easily

adaptable to other types of tubes. It may also be associated with other systems provided to enable variation of the output frequency of the signal. It can then advantageously be used to increase the efficiency and the operating range of the system.

Please replace the heading “Brief description of the figures” above paragraph [0022] with the heading “~~Brief description~~ Description of the ~~figures~~ Drawings”.

Please replace paragraph [0023] with the following amended paragraph:

[0023] The same ~~marks~~ reference labels denote the same elements in all figures.

Please replace the heading “Detailed description of embodiments of the invention” above paragraph [0024] with the heading “Detailed description of the preferred embodiments of the invention”.

Please replace paragraph [0026] with the following amended paragraph:

[0026] The fixed part is composed of the longitudinal wall 3 of the tube in which at least one guide slit G (FIG. 3B) is formed.

Please replace paragraph [0028] with the following amended paragraph:

[0028] The guide slit(s) G enable passage of rods 6 in the longitudinal wall 3 of the tube so as to connect the nuts 5 to the rings as best shown in FIG. 3B. A ring seen in section (see figures 3A, 3B) may for example be profiled like a rim.

Please replace paragraph [0029] with the following amended paragraph:

[0029] During the frequency adjustment, the lead screw is moved in rotation, which drives the nuts 5, the rods 6, the rings A, B, C, D and the electrical contacts 2 in a translation movement. According to one variant of the first embodiment, the ring A may be connected to a mechanical part p (FIG. 3A) that can then slide along tube 3.

Please replace paragraph [0038] with the following amended paragraph:

[0038] The tube 3 is the same as the tube in the previous assembly. Each ring A, B, C, D placed inside the tube 3 is fixed to a pin 7. A pin 7 moves inside two slits located on two independent parts, namely the fixed tube 3 and an outer ring 8. A first slit 9 placed on the fixed tube 3 only enables ring translation movements in the longitudinal direction of the tube. A set of slits 10 placed on the outer ring 8 fixes the range of variations of the period of the periodic structure. They correspond to the different pitches of the lead screw 4 of the previous assembly and perform the same function. The slits 10 (FIG. 4B) have a different inclination for each ring so as to keep a specific periodicity at the different rings, during displacement of the rings.